

AA/EE-7

AIRPORT and AIRWAY LIGHTING EQUIPMENT



1135 6234 Jm

CROUSE-HINDS COMPANY



AIRPORT AND AIRWAY LIGHTING EQUIPMENT

REVOLVING BEACONS
180° AIRPORT FLOODLIGHTS
CEILING PROJECTORS
CEILING HEIGHT INDICATORS
LANDING FIELD FLOODLIGHTS
BOUNDARY LIGHTS
APPROACH LIGHTS
OBSTACLE LIGHTS
COURSE LIGHTS
HANGAR ROOF FLOODLIGHTS
WIND SOCK LIGHTING FIXTURES
VAPORPROOF LIGHTING FIXTURES
VAPORPROOF HAND LAMPS
PANELBOARDS AND CABINETS
SWITCHES
GROUNDING DEVICES
ARKTITE PLUGS AND RECEPTACLES
SPlice BOXES FOR UNDERGROUND
CABLE
REMOTE CONTROL CABINETS
CONDULETS

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Type AKP 180° Landing Field Floodlight



Type AKP floodlight is entirely new in principle and design. It consists of a glass reflector the vertical spread of which is limited to a very few degrees, with a horizontal spread of 180 degrees. This projector is made in two sizes, $1\frac{1}{2}$ Kw. and 5 Kw., and is designed particularly for lighting the landing area of an airport.

The housing is cast aluminum alloy, except the back, which is lead coated sheet steel.

The mounting consists of a slip fitter base with a tapped hub in the side which can be used as a wire outlet in case wires are brought up through the supporting pipe. Leveling screws are provided for tilting the floodlight in two directions.

The bottom of the housing may be dropped for relamping and cleaning.

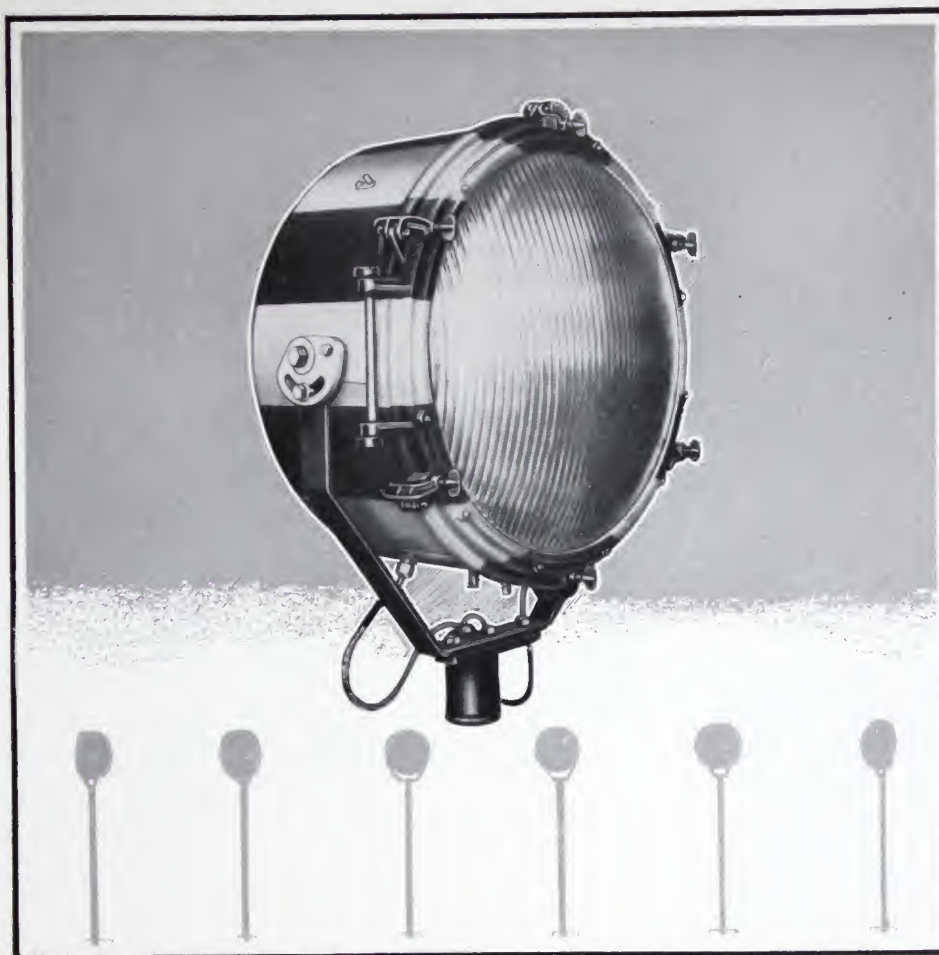
Louvers are provided for cutting off all spill light above the horizontal.

The reflector is of silvered glass.

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Type DCE24 Landing Field Floodlight



Type DCE24 landing field floodlight can be used either in a bank system, with from 3 to 12 floodlights grouped together with their beams overlapped, or in a distributed system with floodlights placed 250 feet apart along the sides of the landing field.

The housing is cast aluminum silicon non-corroding alloy in one piece, non-ventilated, dust-tight and weatherproof.

The reflector is a commercial precision mirror 25 inches in diameter.

The door frame, of the same material as the housing, is hinged at the side and clamped with six "C" clamps. It is fitted with an asbestos gasket and louvers which cut off the direct lamp rays above the horizontal.

Type DCE24 floodlight is mounted on a slip fitter base having a tapped hub for wire outlet.

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Type DCB24 Revolving Beacon



Type DCB24 revolving beacon is the government standard for use on airways.

The housing and door frame are of cast aluminum silicon non-corroding alloy. The housing is designed to dissipate the heat without ventilation.

Peep sights are furnished for focusing the lamp in the day time.

The lens is a one-piece convex prismatic heat-resisting clear glass lens designed to direct 15% of the light 25° upward.

A magnetic lamp changer, a red indicating light, and zenith lights can be provided. Zenith lights consist of four prismatic glass strips mounted in the top half of the housing which direct a narrow fan of light upward and enable an aviator to locate the beacon after he has passed over the main beam.

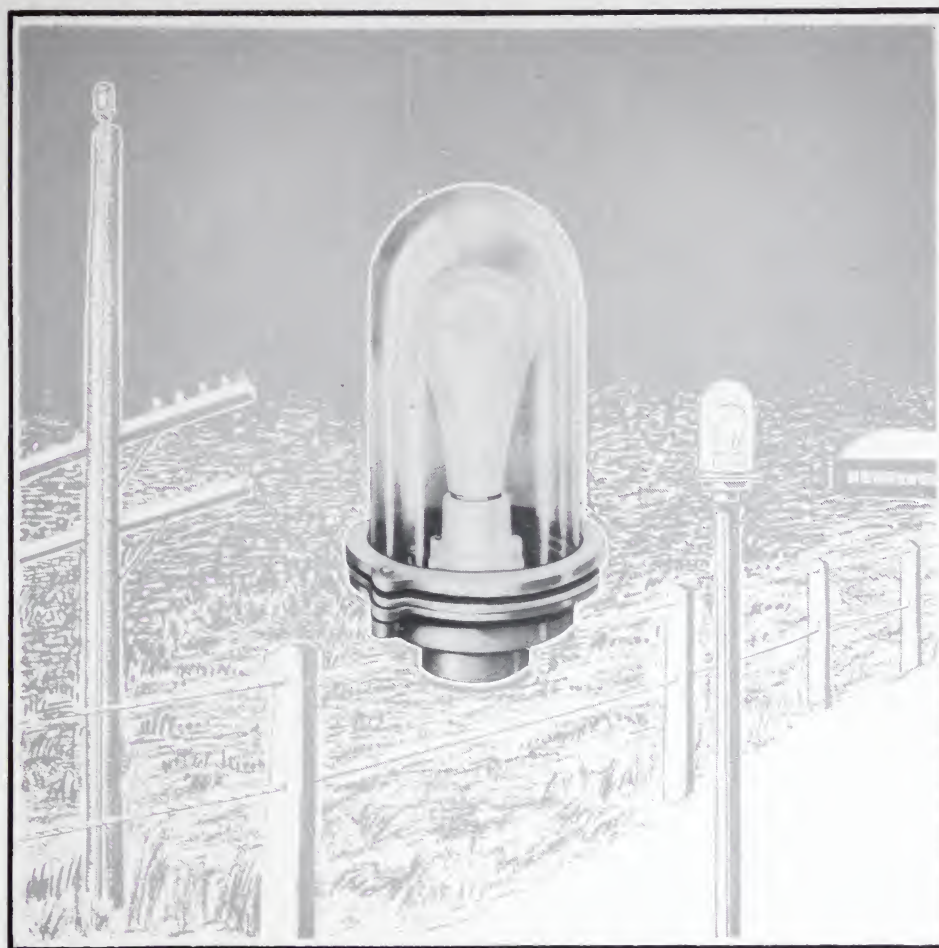
The rotating mechanism is housed in the base where it can be easily reached by removing the three side plates on the base. The motor, of $\frac{1}{6}$ horsepower, is connected to a vertical shaft through a worm gear and slip clutch.

The beacon is finished in aluminum.

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Boundary, Obstacle, and Approach Lights



It is customary to outline a landing field with boundary lights, to indicate the runways with approach lights, and to mark all obstructions with obstacle lights. The Crouse-Hinds Company makes a complete line of lights for this purpose.

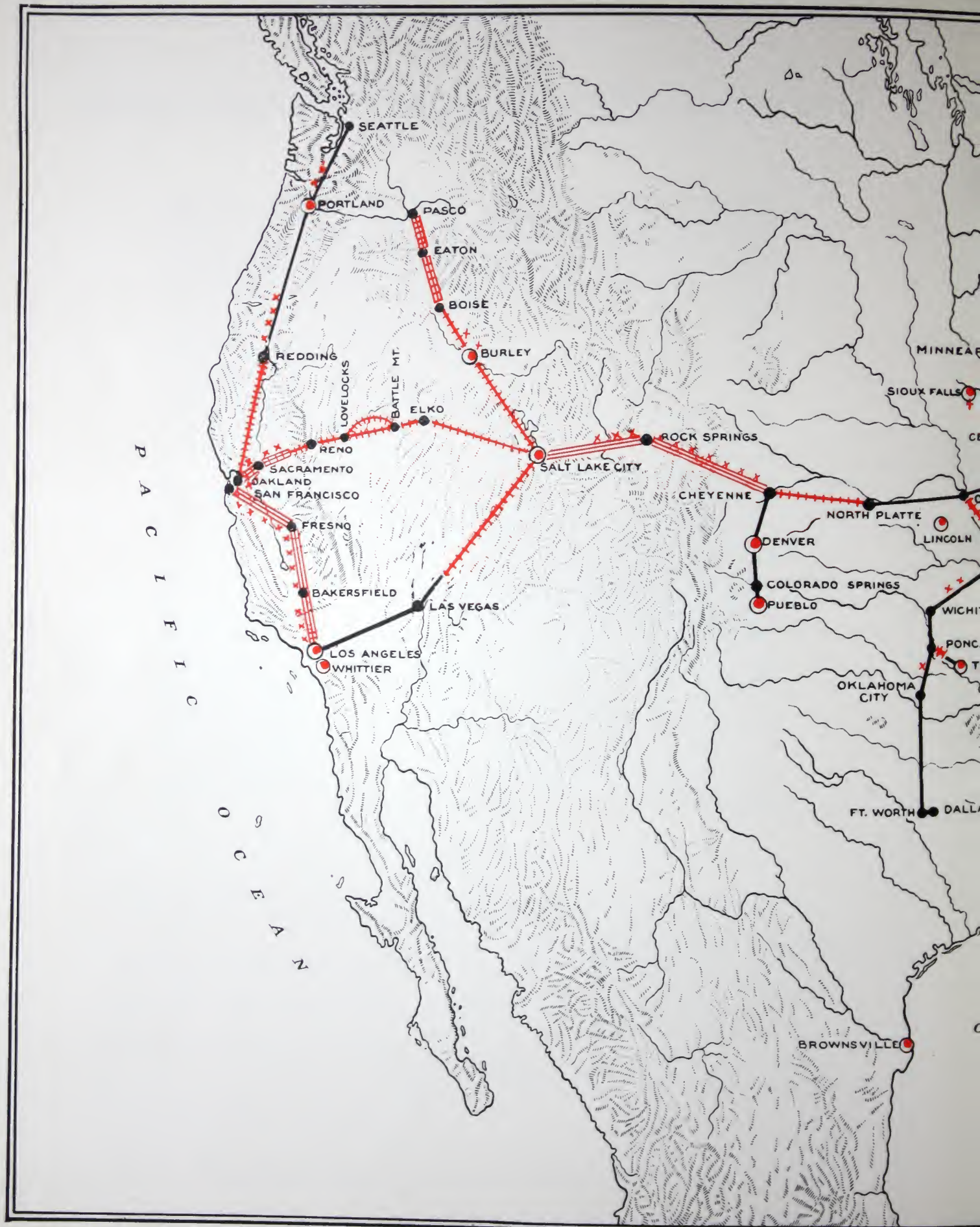
The housings of these lights are cast bronze, and can be furnished with or without guards as desired.

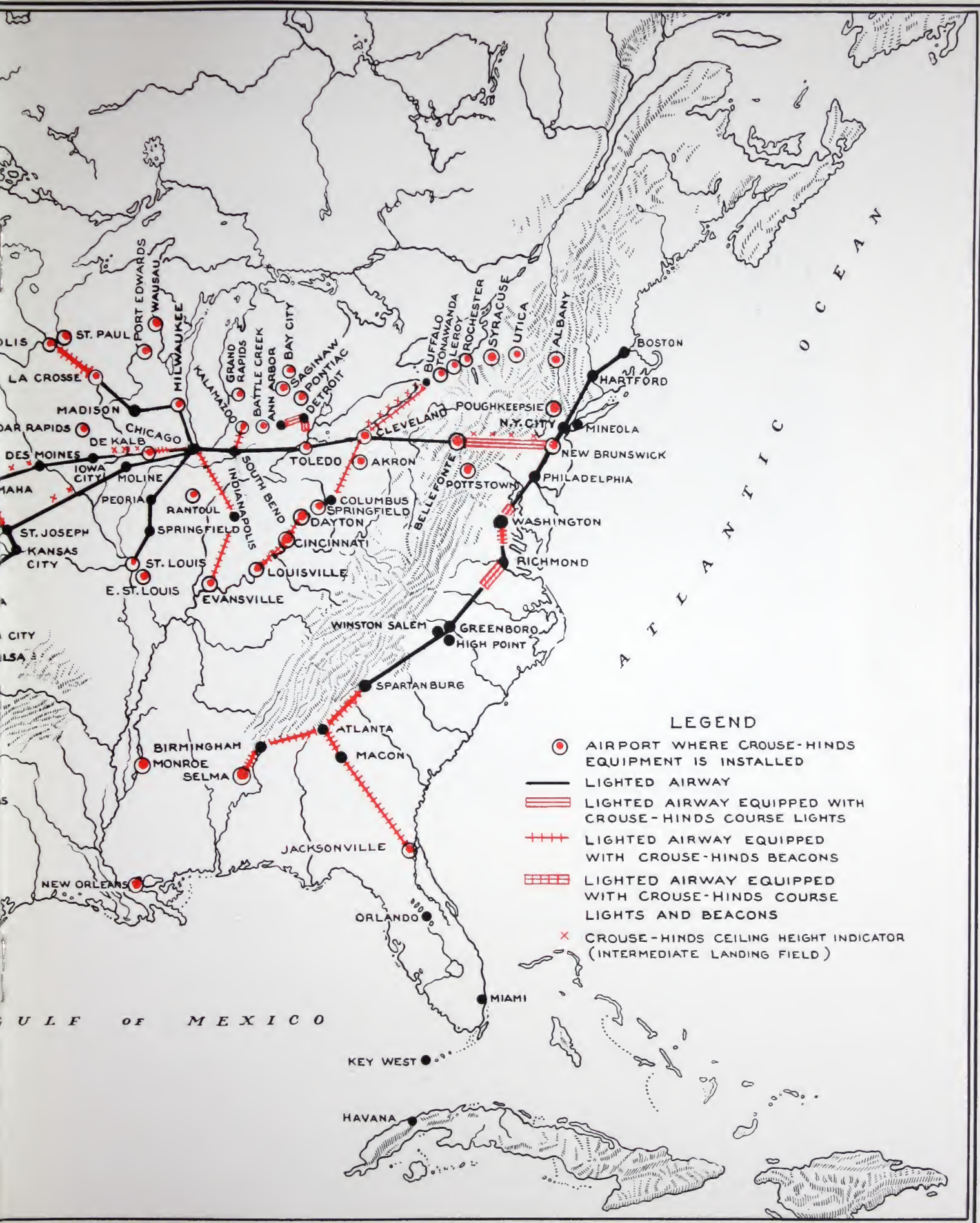
For series circuits these lights are furnished with either clear, frosted, green, or red globes; and for multiple circuits, clear, green, or red globes.

In all of these lights the globe seats on a gasket; another gasket is also furnished between the globe and the clamping ring or guard.

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Type MSA1 Hangar Roof Floodlight



Floodlighting is the most efficient and effective way to illuminate hangar roofs. Type MSA1 floodlight is ideal for this purpose, as it has an exceptionally wide spread and no glare.

The housing is of non-corrodible cast aluminum alloy. The inside surface is finished with a special heat-resisting white paint.

A locking device consisting of two swivel bolts fastened to two cast lugs positively locks the floodlight at any desired angle.

Type MSA1 floodlight is furnished with a 4-inch slip fitter base with wire outlets so that wires may be carried up through the pipe on which the light is mounted.

The housing is cast aluminum; the base, cast iron, galvanized.

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Type DCE14 Ceiling Projector



Type DCE14 is a 14-inch projector designed for use in determining the height of the ceiling (clouds).

This ceiling projector has a cast aluminum housing and is dust-tight and weatherproof. Louvers are attached to the door frame for cutting off all spill light.

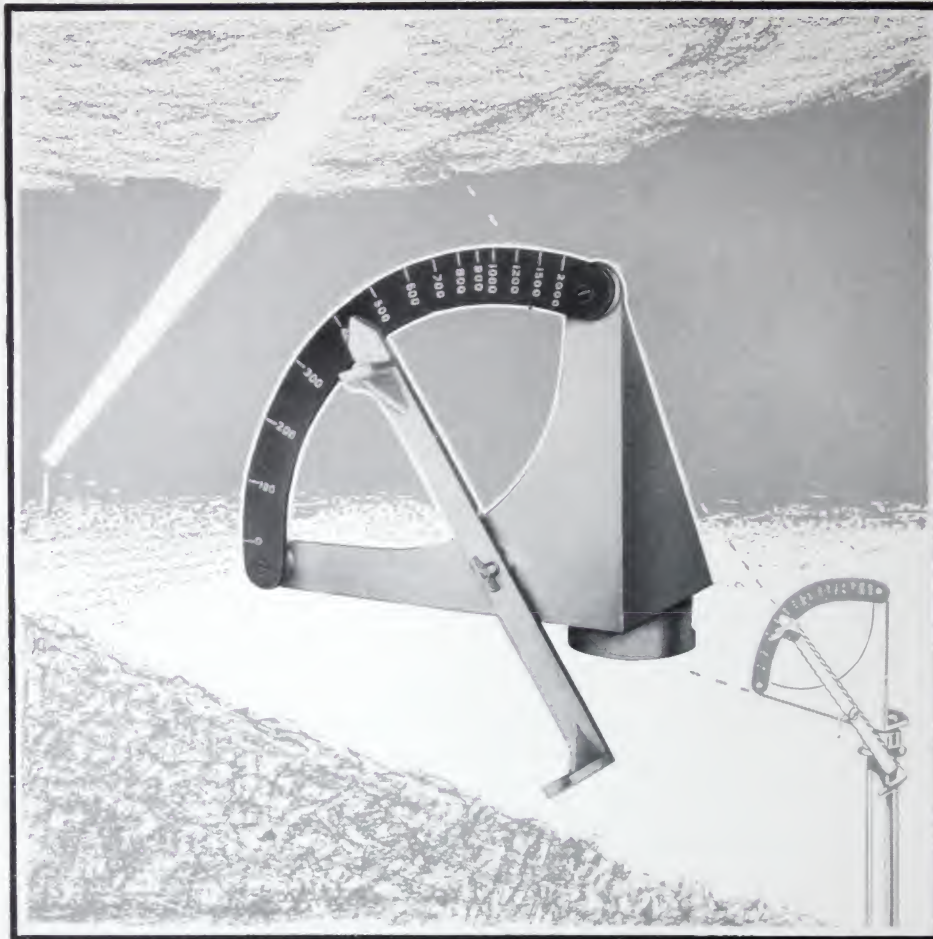
Type DCE14 is equipped with a two-way focusing mechanism and peep sights for adjusting the lamp.

On the side of the projector is mounted a quadrant and pointer for raising it to the desired angle of elevation.

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Ceiling Height Indicator



The ceiling height indicator was designed for use with a ceiling projector to simplify the method of measuring the height of the ceiling or cloud level at an airport.

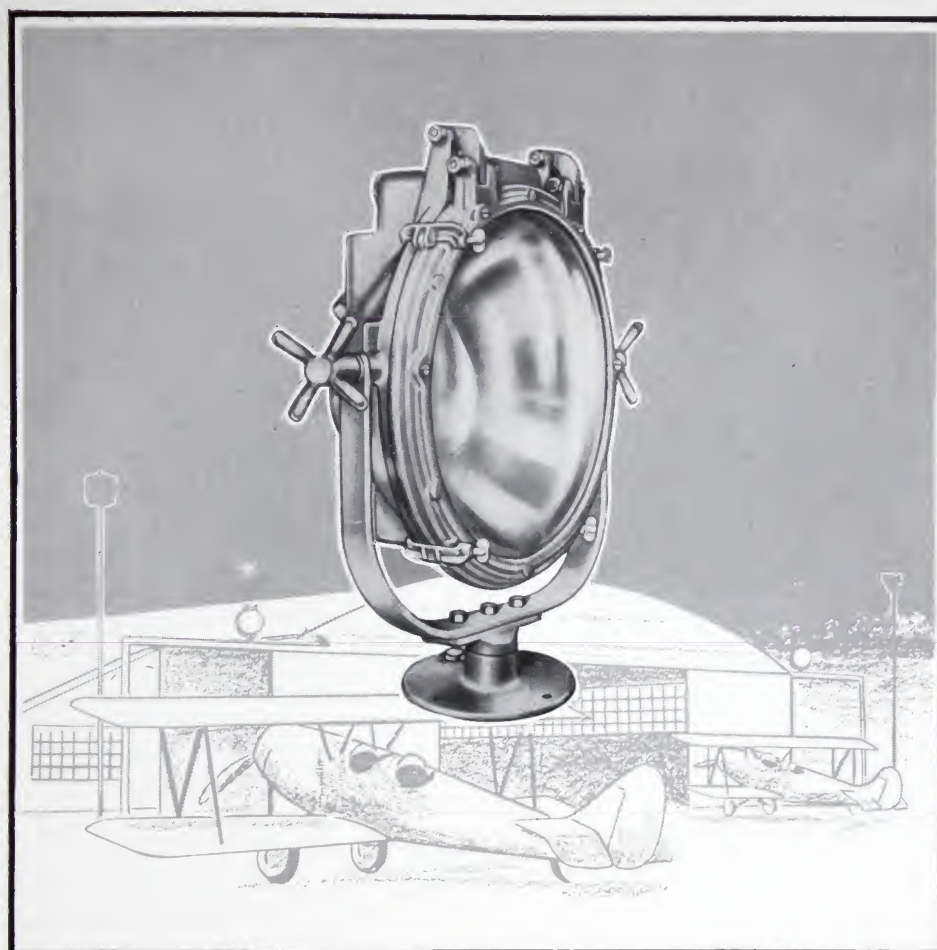
The ceiling height indicator is usually installed in front of the administration building and the ceiling projector, elevated at an angle of $63^{\circ} 26'$, is mounted 500 feet away. It is controlled by a switch in the office.

When the ceiling projector is turned on and throws a spot of light on the clouds, it is then only necessary to sight along the pointer of the height indicator at the spot of light. The scale on the indicator then reads the height of the clouds in feet.

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Type LCE16 For General Illumination



Type LCE16 floodlight is the most suitable light for general illumination, such as lighting the area in front of the hangars and other buildings.

The cast aluminum alloy housing is dust-tight and weatherproof and is designed to radiate the heat of the lamp without ventilation.

The reflector is of crystal glass with hammered surface, 16 inches in diameter.

Type LCE16 floodlight, when used for the above purpose, has a spread lens.

The finish is natural aluminum except for the cast iron base and steel trunnion which are galvanized.

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V Series Vaporproof Lighting Fixtures



Since hangars are used not only to store idle planes but also for the maintenance and repairing of them, their interiors should be brightly illuminated so that the necessary work can be done. The fact that gasoline is used should make it imperative to use vaporproof lighting fixtures, to guard against the dangers of gas fumes.

The V series vaporproof lighting fixtures make an ideal installation for this type of lighting.

The standard type RLM reflector is generally used but where the hangar roof is unusually high a deep bowl reflector is more satisfactory.

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